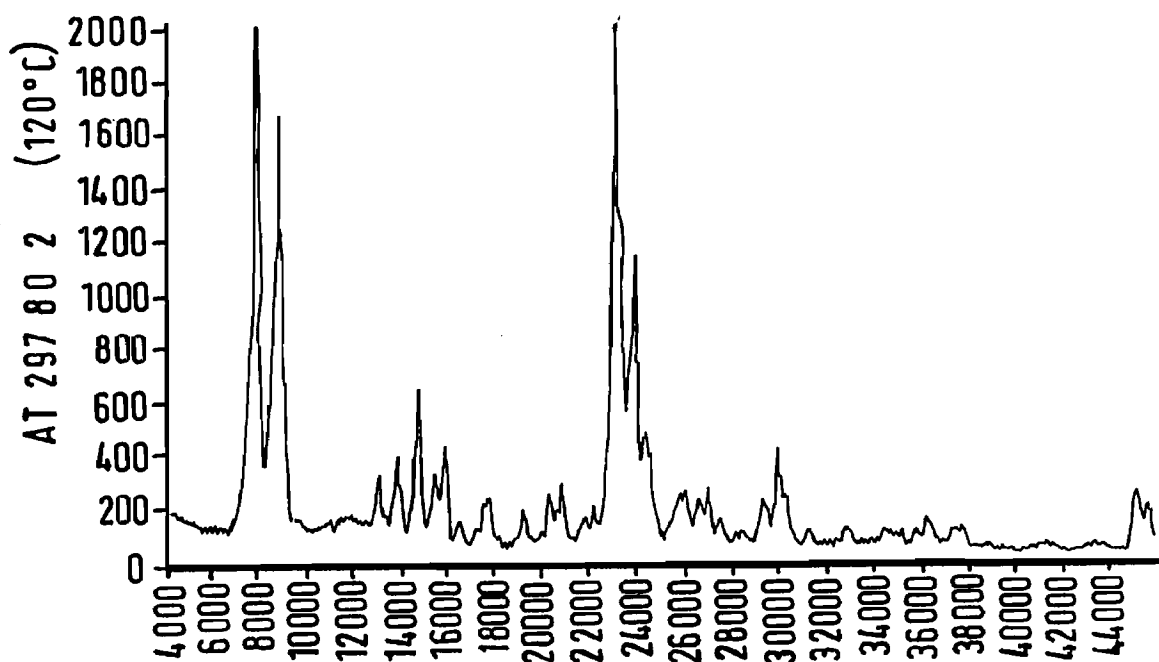


FIG. 1

120° CRYSTALS



50° CRYSTALS

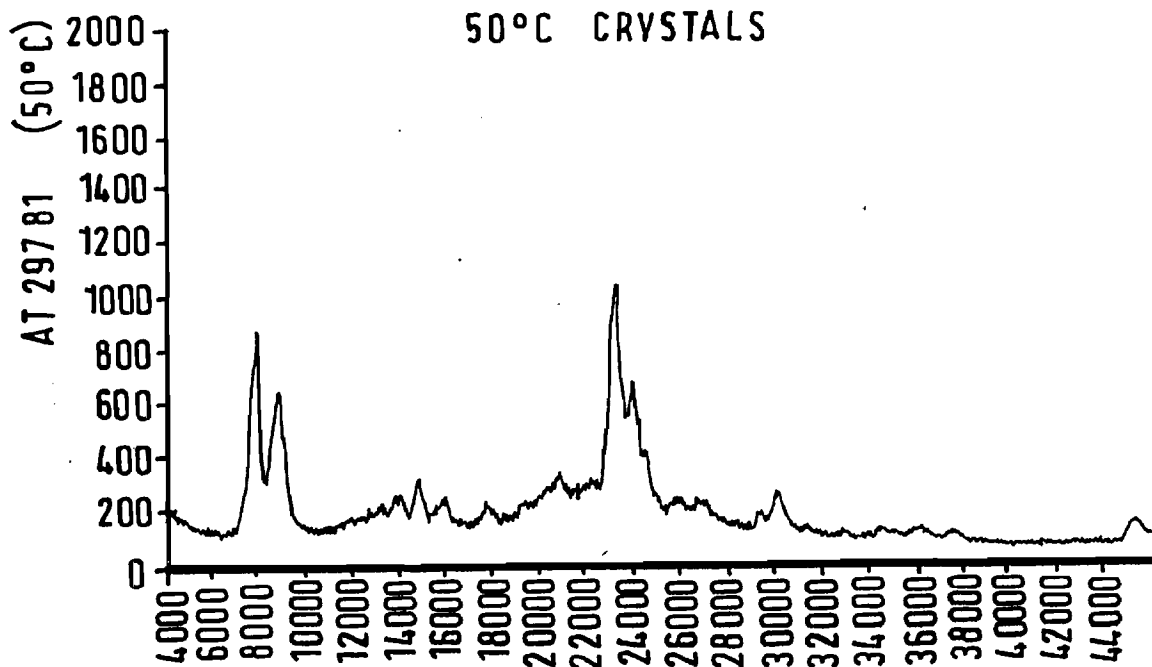


FIG. 2

EFFECT OF SYNTHESIS TEMP.
ON MFI-CRYSTALLITE SIZE

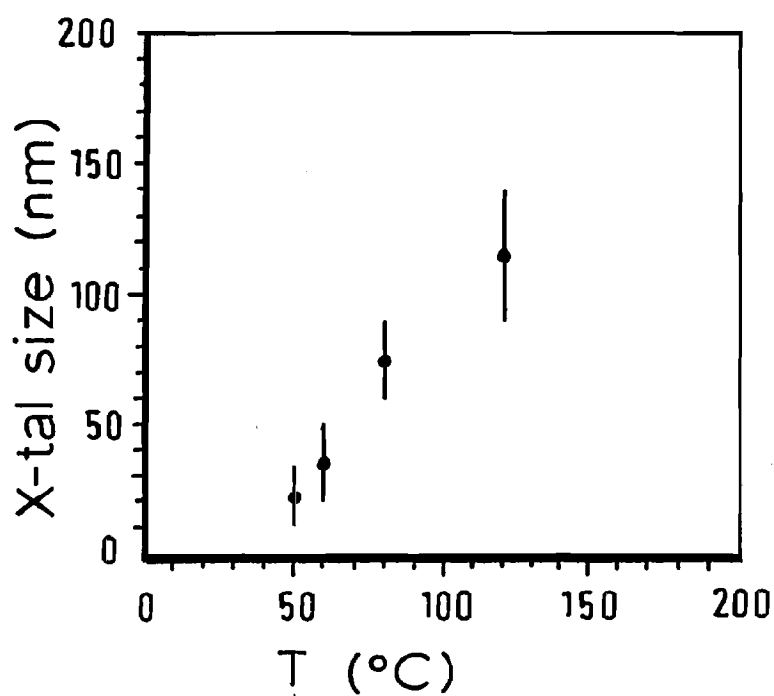
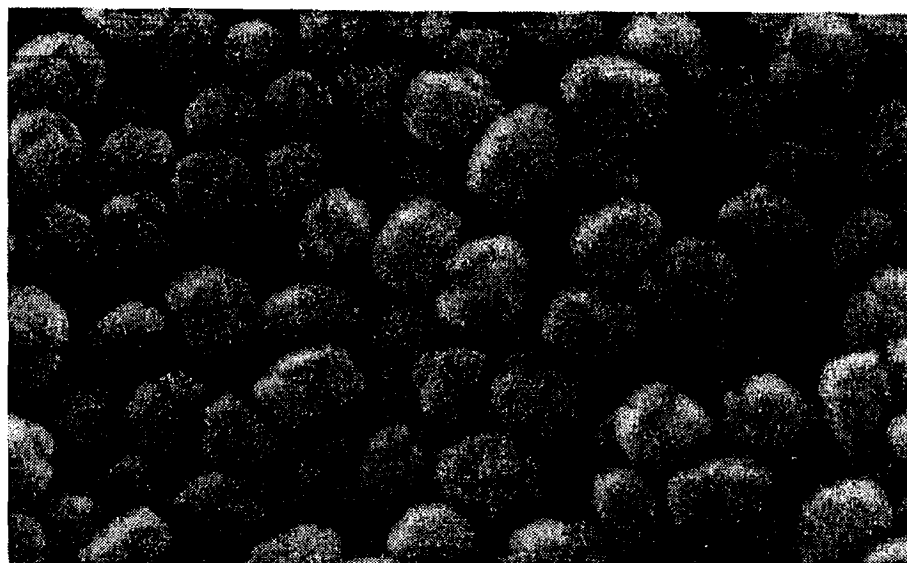


FIG. 3

MAGNIFICATION : 104,000 *

120°C - CRYSTALS



50°C - CRYSTALS

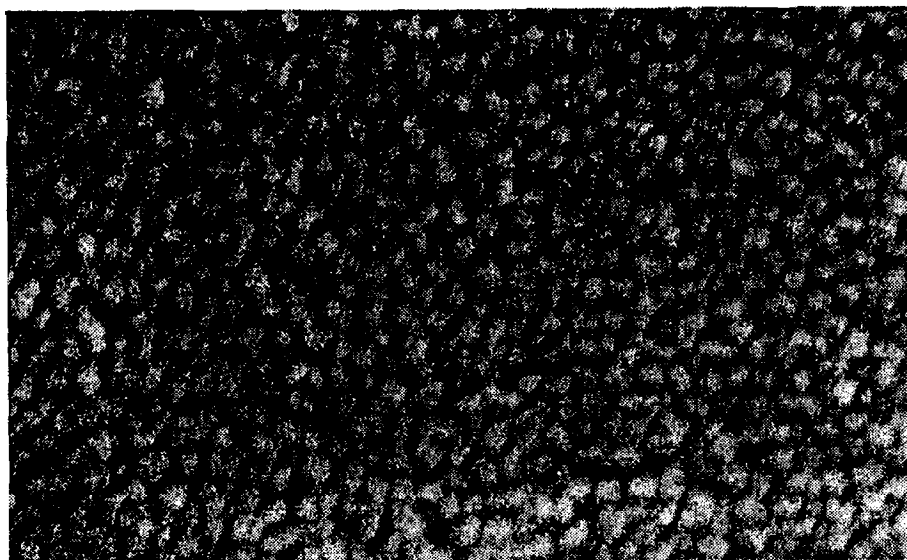
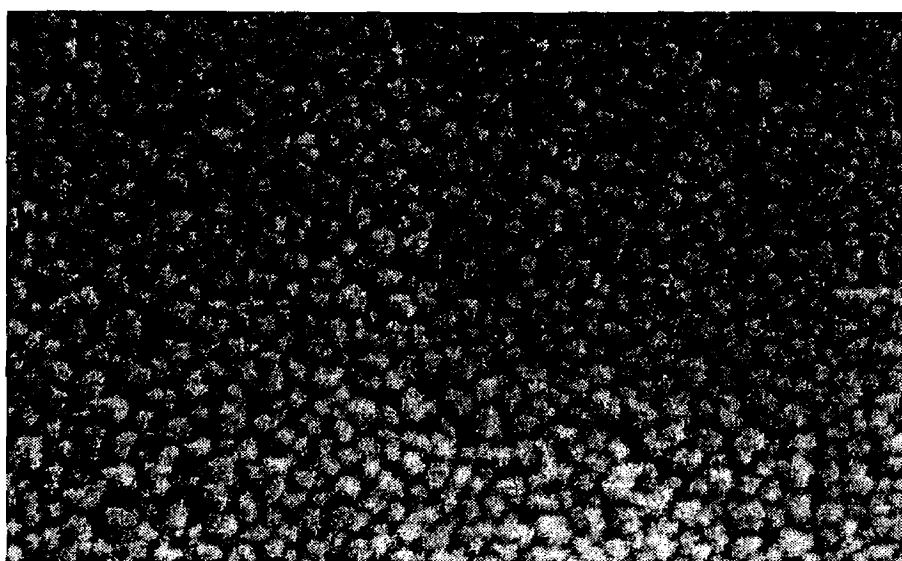


FIG. 4

COMPARATIVE 140 000 * SEM MICROGRAPHS

SILLICATE - 1 PRE AGED AT 50°C



SILLICATE - 1 PRE AGED
AT 50°C FOLLOWED BY 100°C CRYSTALLISATION

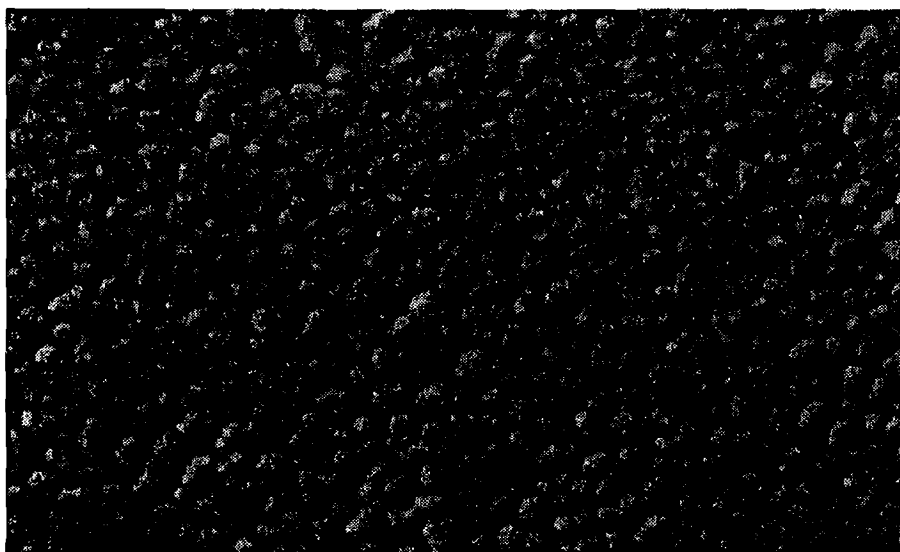
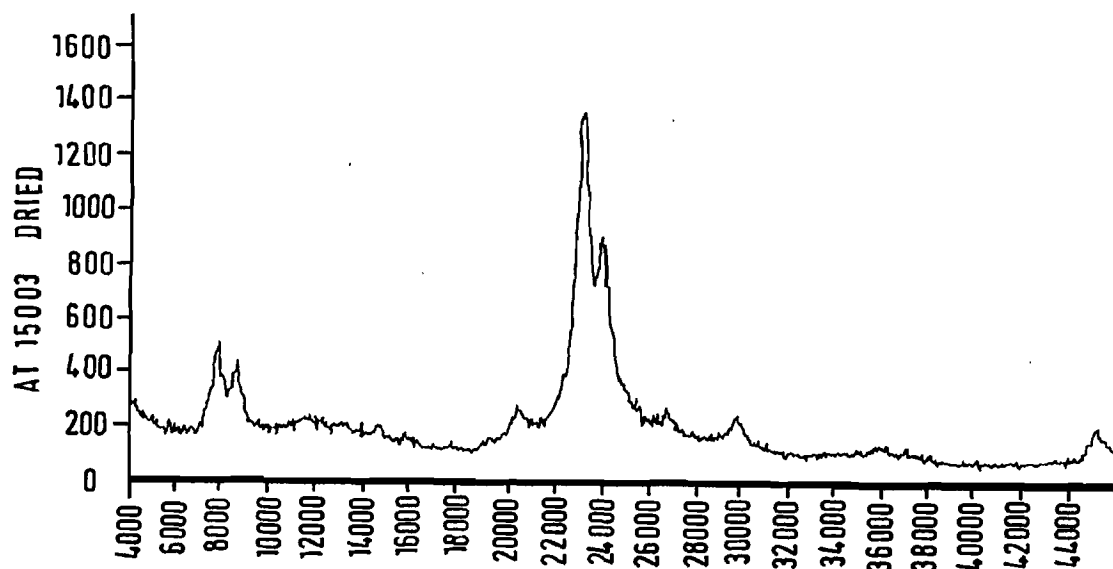


FIG. 5
XRD OF PRODUCT DRIED
AFTER SYNTHESIS

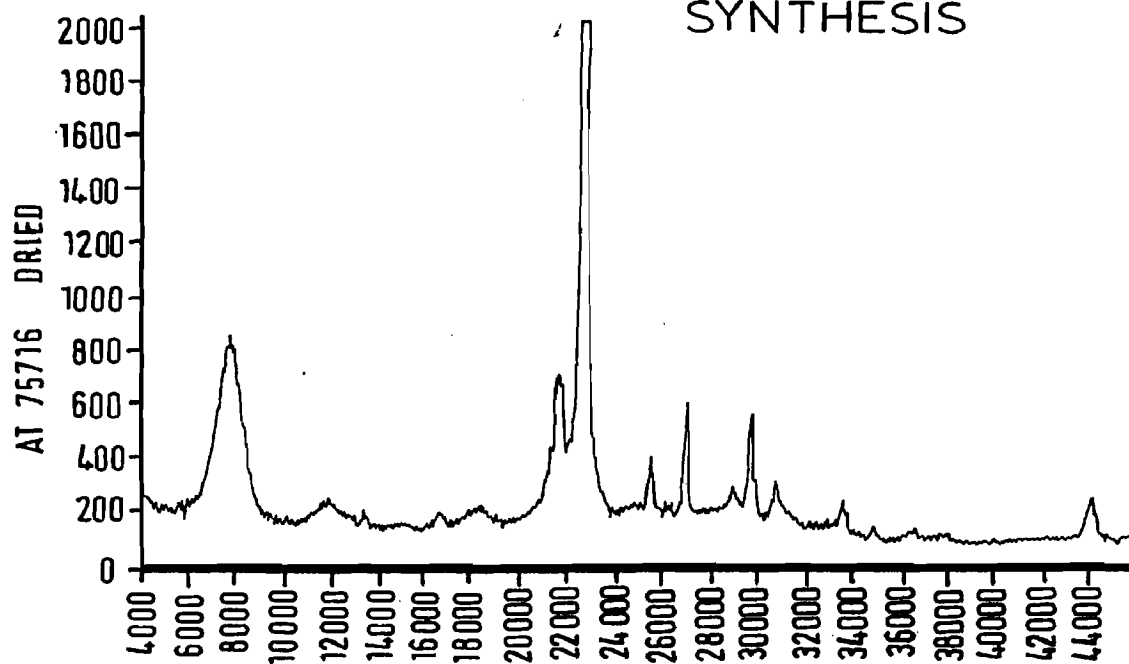


MAGNIFICATION 104,000 *

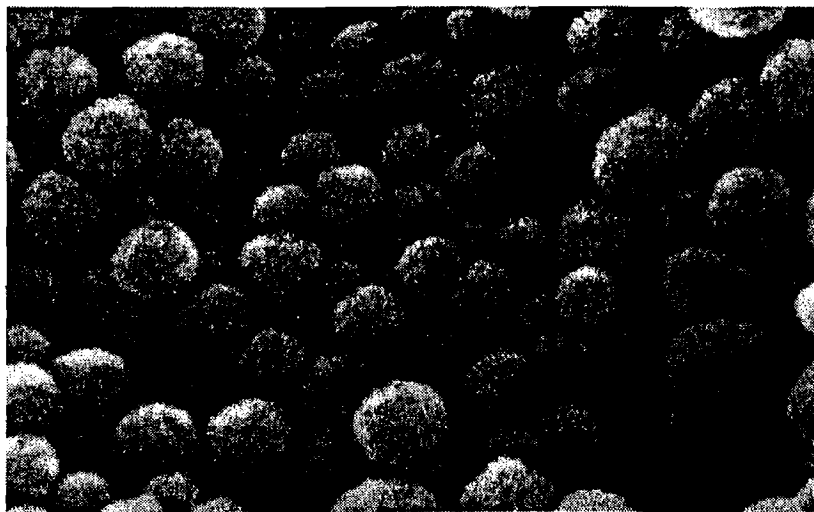


FIG.6

XRD OF PRODUCT DRIED AFTER
SYNTHESIS



MAGNIFICATION 104,000 *



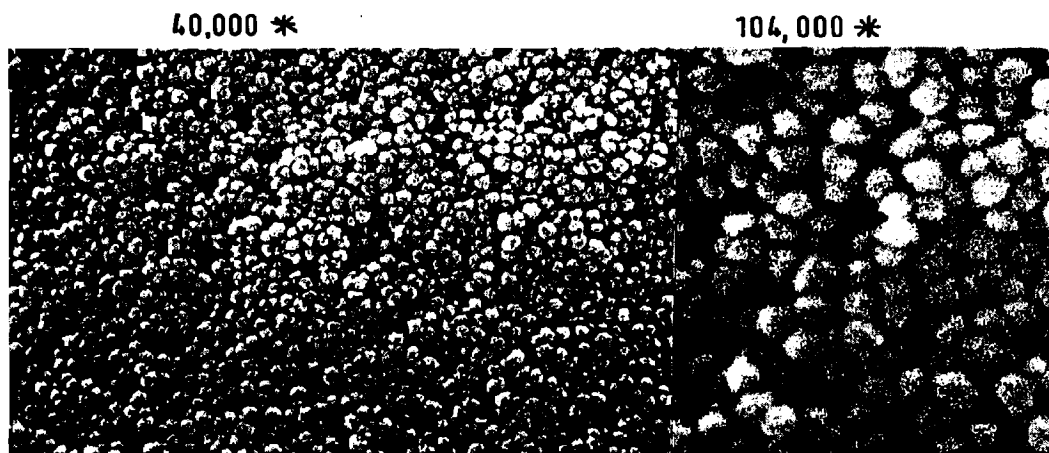
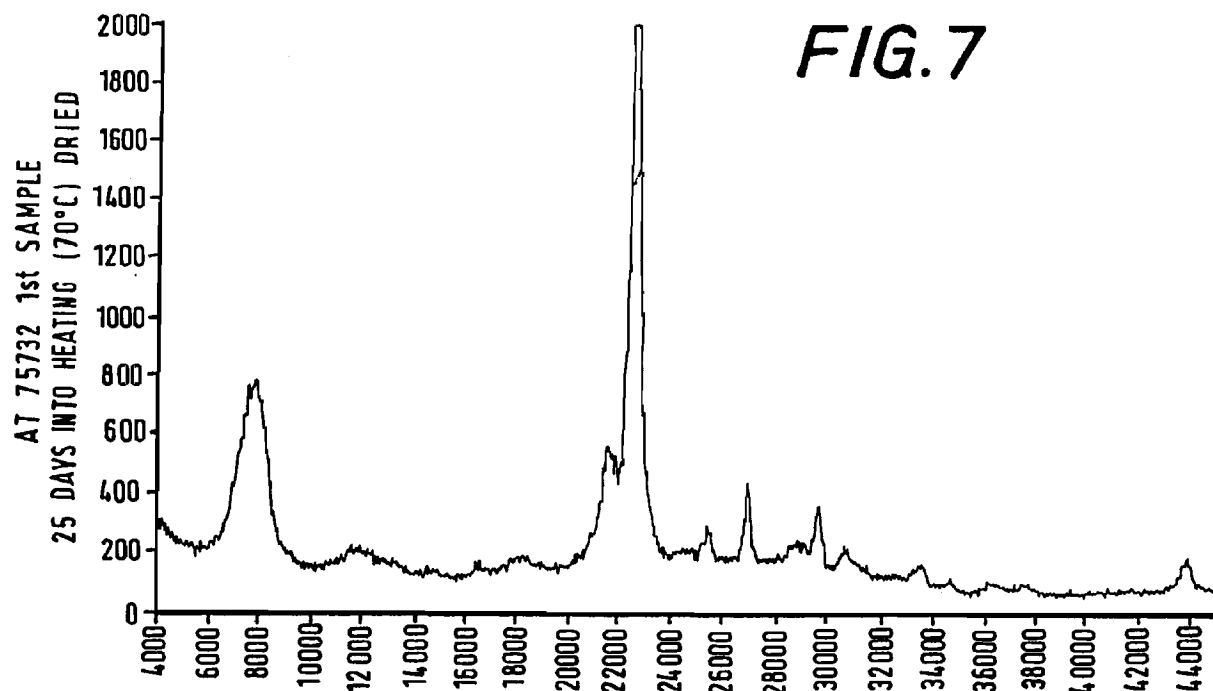
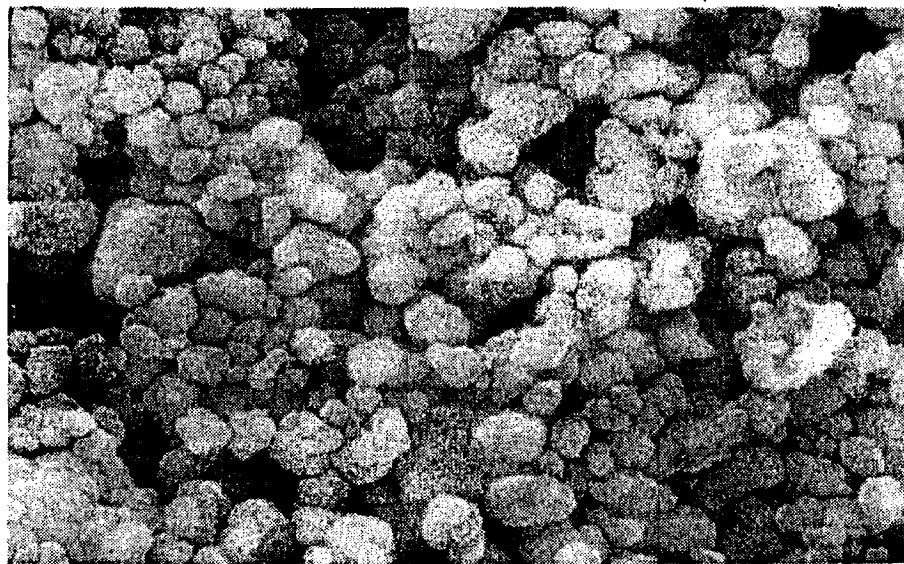


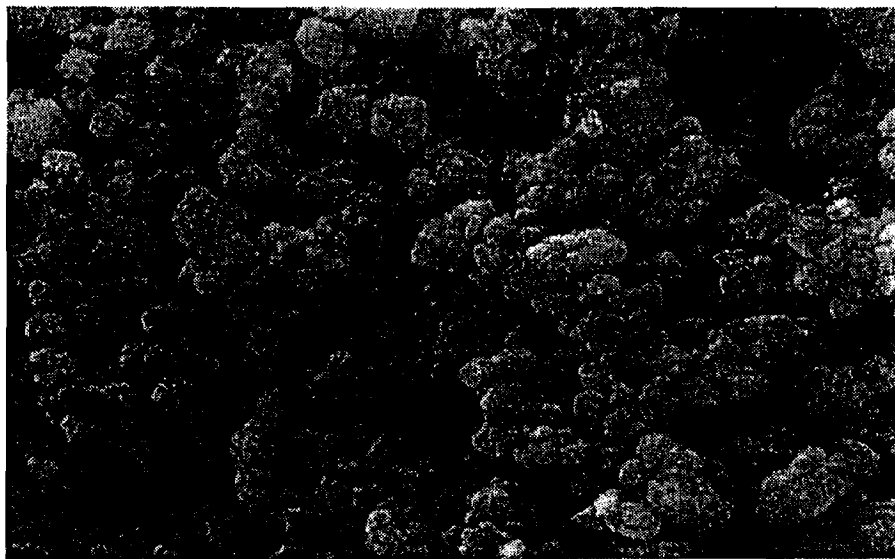
FIG. 8

MICROGRAPH SHOWING AGGLOMERATES WITH
SIZES BETWEEN 0.3 AND 1.5 μm



MAGNIFICATION : 10,000 *

FIG. 9

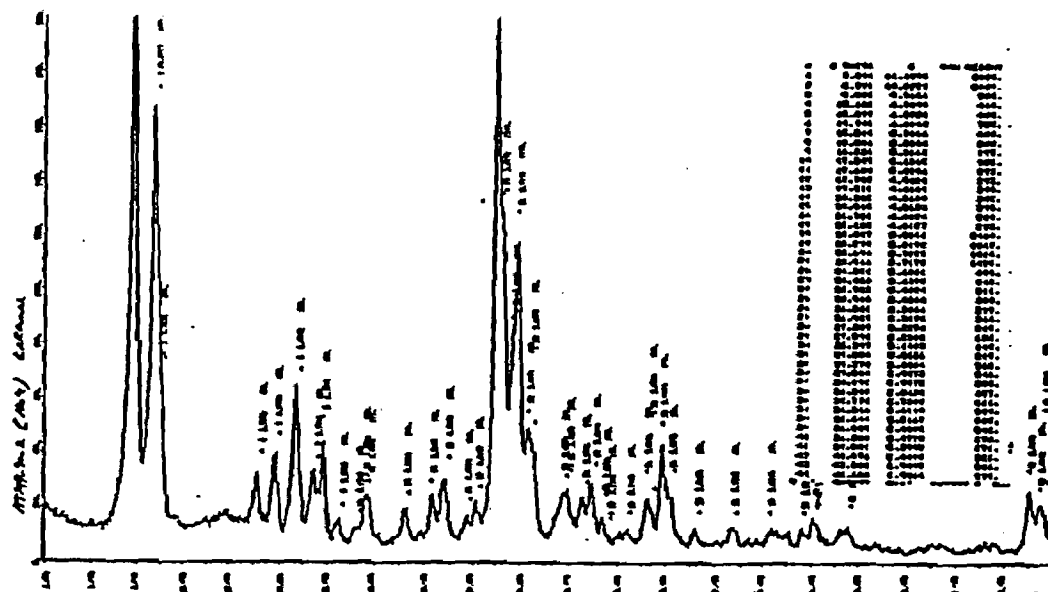


MAGNIFICATION : 10,000 *

MICROGRAPH SHOWING AGGLOMERATES WITH
A SIZE BETWEEN 0.2 AND 1.5 μm

FIGURE 1

120°C - Crystals



50°C - Crystals

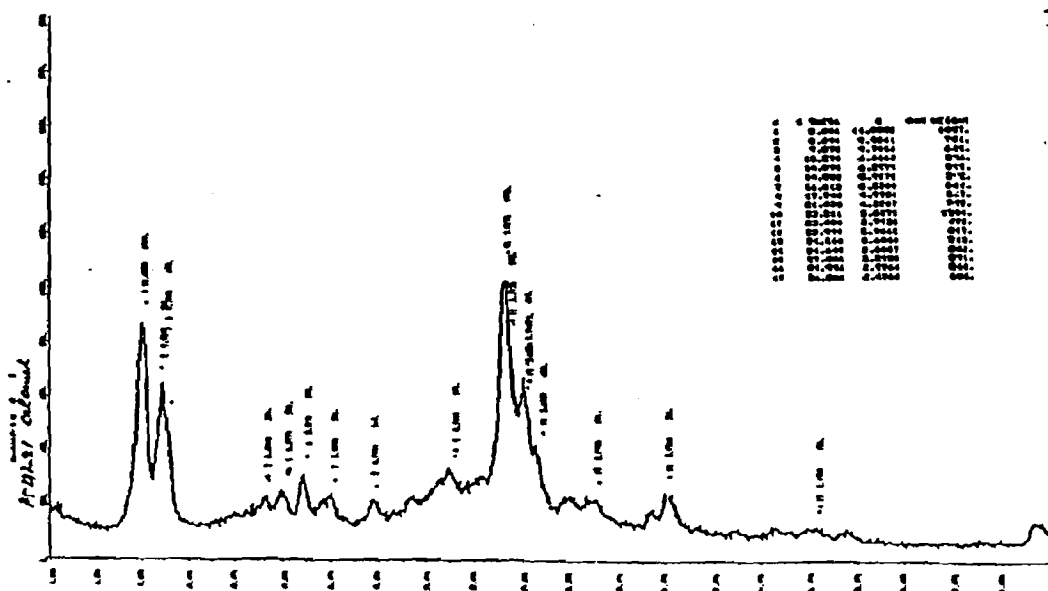
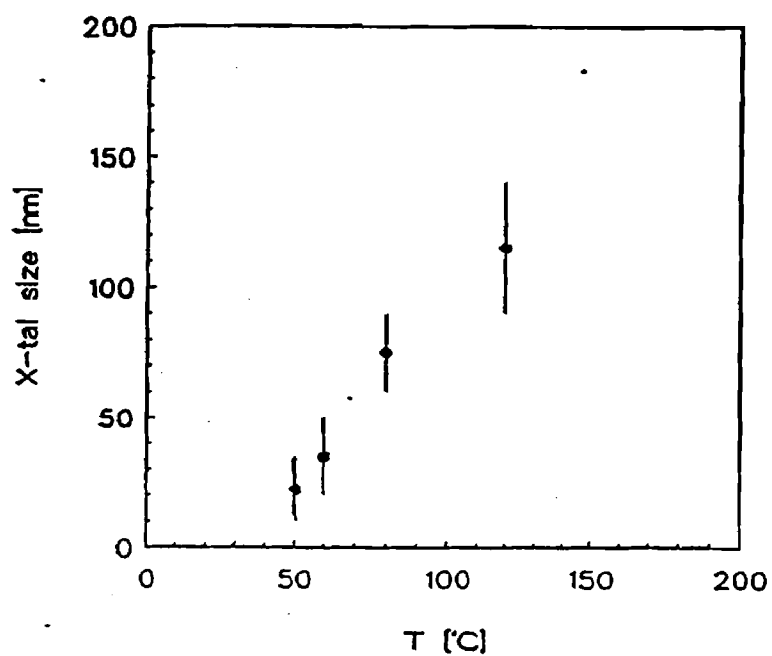


FIGURE 2EFFECT OF SYNTHESIS TEMPERATURE ON MFI-CRYSTALLITE SIZE

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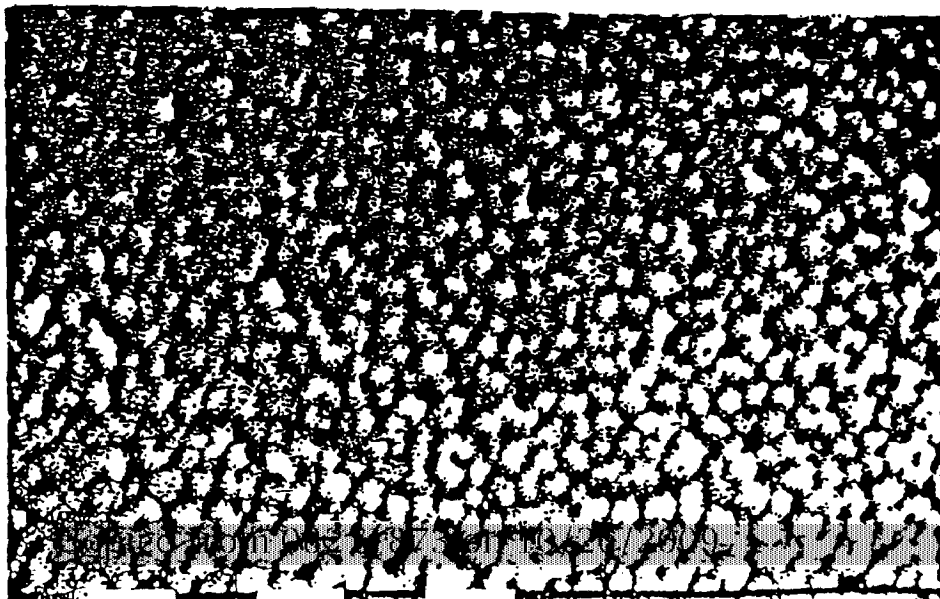
FIGURE 3

MAGNIFICATION : 104,000 *

120°C - Crystals



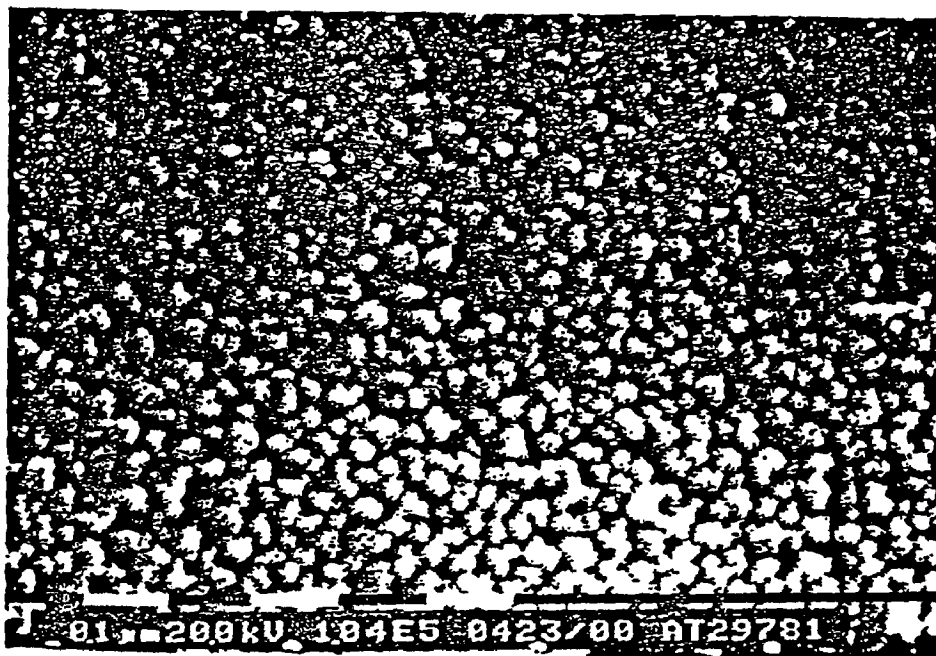
50°C - Crystals



F I G U R E 4

COMPARATIVE 140,000 * SEM MICROGRAPHS

Silicalite - 1 pre-aged at 50°C



Silicalite -1 pre-aged at 50°C followed by 100°C crystallisation

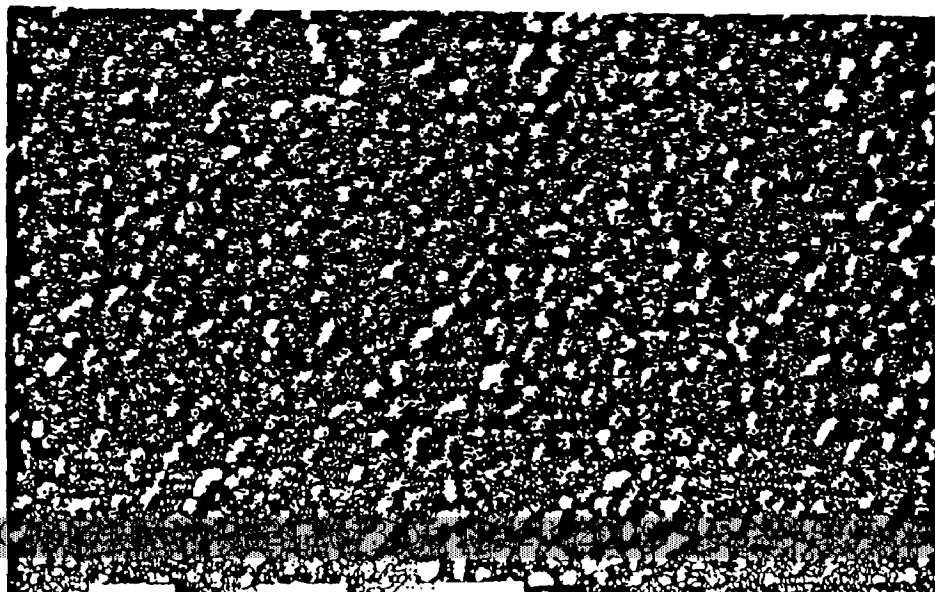
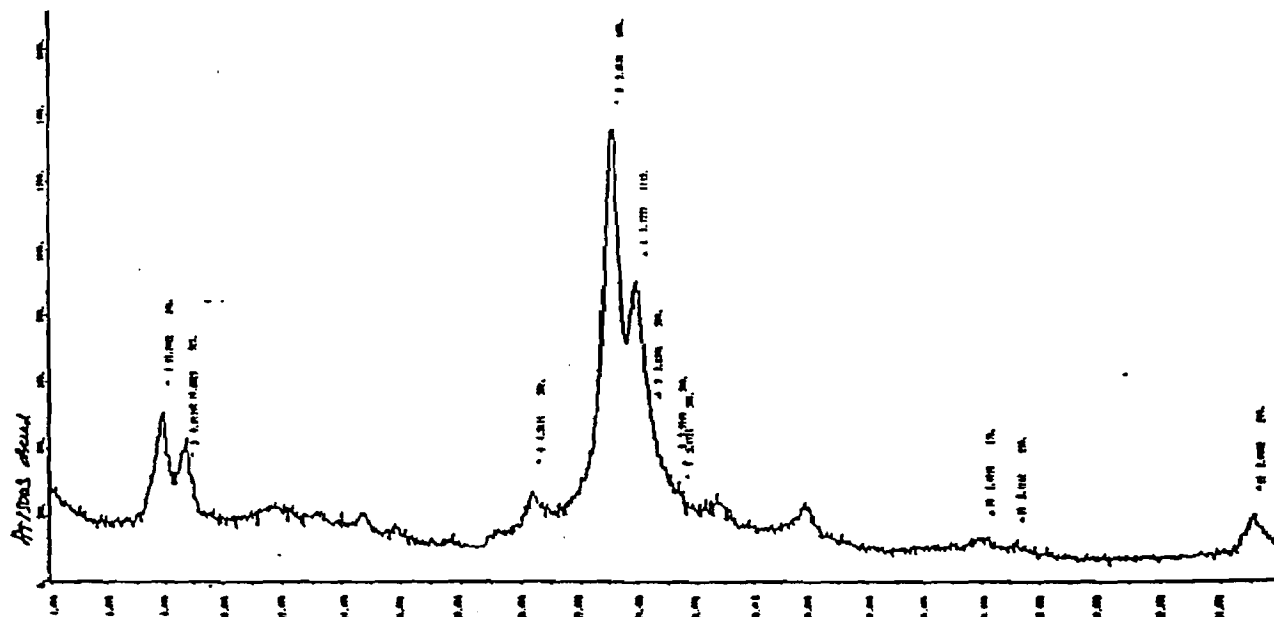


FIGURE 5

XRD OF PRODUCT DRIED AFTER SYNTHESIS



SEM MICROGRAPHS, MAGNIFICATION 104,000 *



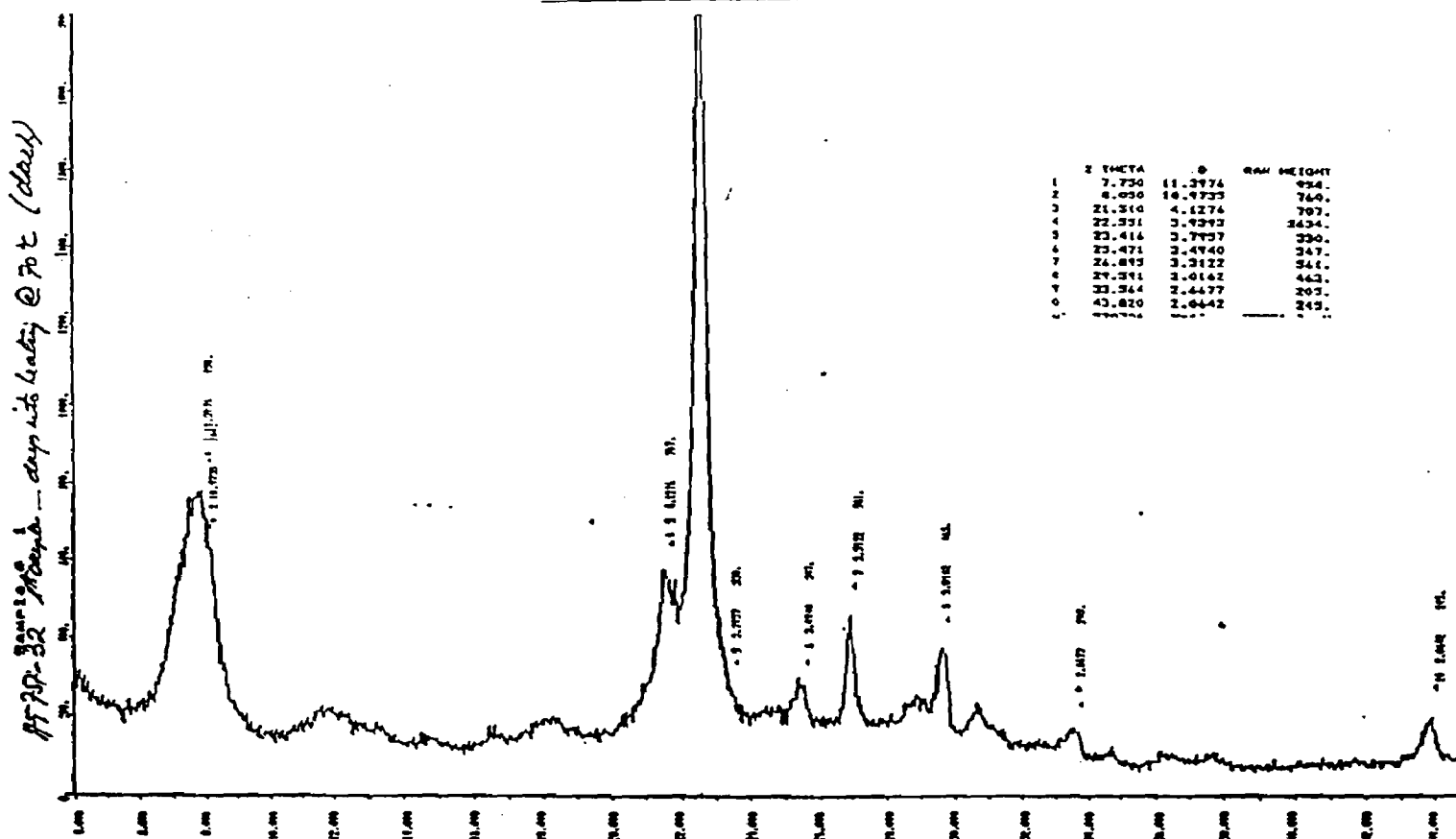
Approx. Absorbance

Wavenumber (cm⁻¹)

Wavenumber (cm⁻¹)	Approx. Absorbance
3400	0.10
2900	0.15
2850	0.12
2800	0.10
2750	0.08
2700	0.05
2650	0.03
2600	0.02
2550	0.01
2500	0.01
2450	0.01
2400	0.01
2350	0.01
2300	0.01
2250	0.01
2200	0.01
2150	0.01
2100	0.01
2050	0.01
2000	0.01
1950	0.01
1900	0.01
1850	0.01
1800	0.01
1750	0.01
1700	0.01
1650	0.01
1600	0.01
1550	0.01
1500	0.01
1450	0.01
1400	0.01
1350	0.01
1300	0.01
1250	0.01
1200	0.01
1150	0.01
1100	0.01
1050	0.01
1000	0.01
950	0.01
900	0.01
850	0.01
800	0.01
750	0.01
700	0.01
650	0.01
600	0.01

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FIGURE 7

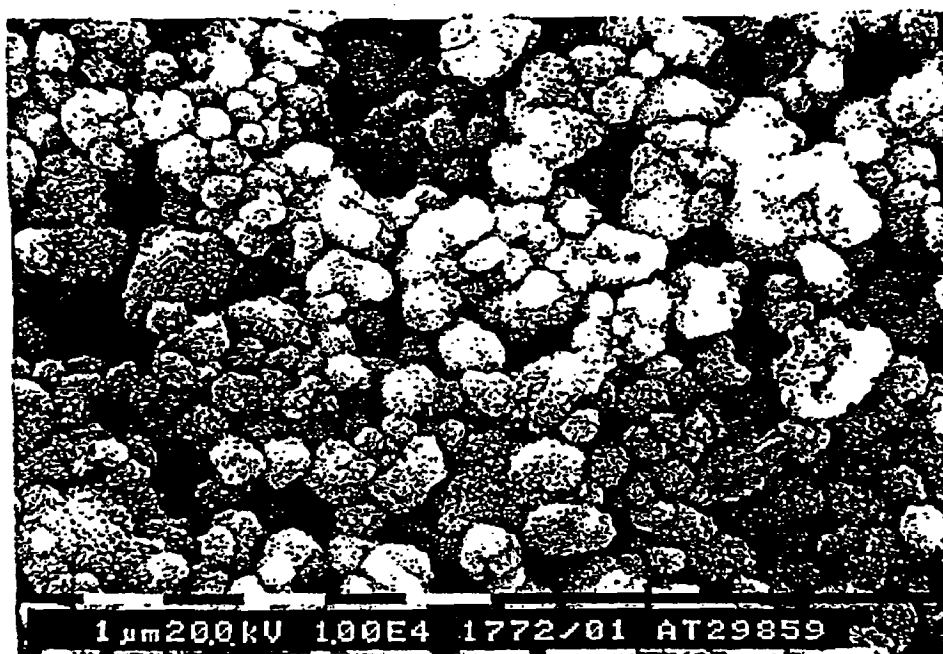


SEM micrographs 40,000x and 104,000x, av. K₂Si₂O₇ ~ 50 N.meter



FIGURE 8

SEM Micrograph



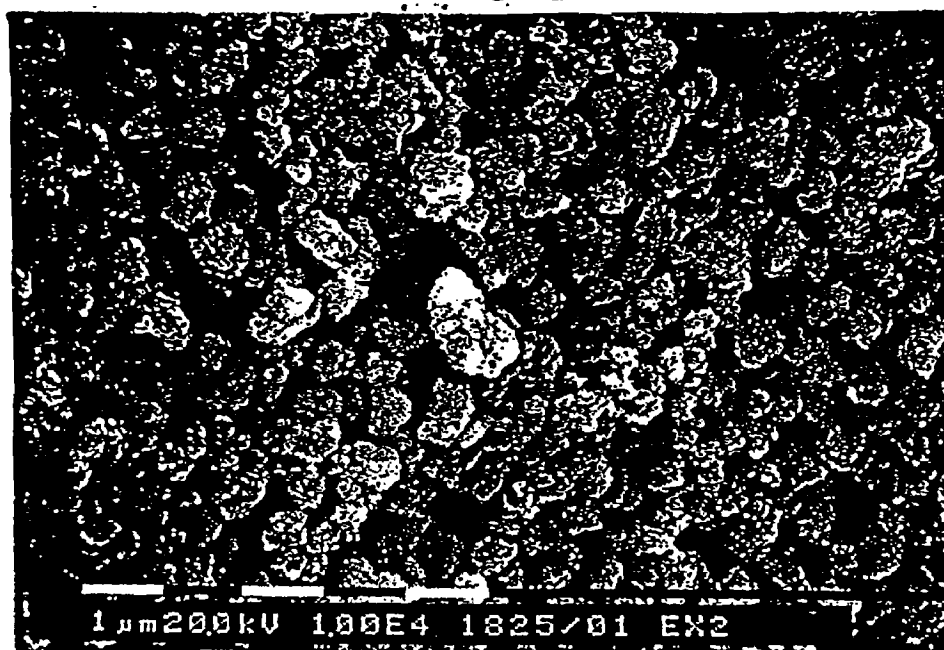
Magnification 10,000*

Micrograph shows agglomerates with size between
0.3 and 1.5 μm

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FIGURE 9

SEM micrograph



Magnification 10,000*

Micrograph shows agglomerates with a size between
0.2 and 1.5 μm